

Cryptography

Past, Present and Future

Imad Fakhri Taha Al Shaikhli

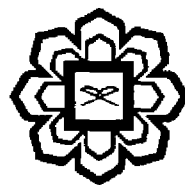


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Cryptography: Past, Present and Future

Imad Fakhri Taha Al Shaikhli



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- Nabilah Bt Abd Rahman

ABSTRACT

In this article we will talk about the Machine based cryptography and how the people were encrypt the plaintext and decrypt the cipher text using that cipher. Also we will introduce into ENGMA Cipher and PURPLE Cipher.

ENIGMA

Secret messages were encrypted and decrypted using electro-mechanical rotor cipher machine called Enigma during 1918 when AthurScherbius invented the machine at the end of World War 1. Scherbius's idea was to achieve these substitutions by electrical connections (Dirk Rijmenants (2004)).His machine pattern were bought by Gewerkschaft Securitas commercial company in order to keep their communications secret after the German military were not interested with his ideas at that time. Then after some time, in 1920s before and during World War 2, German military and government services started to adopt the machine. During that time, the machines provided better messages encryptions than other machines because of the rotating rotors. In 1925, the German Navy started buying Enigma machines and modified the machines into stages that it can add or delete some keys, use more than three rotors and also add plug board. The Germans believe that Enigma machines could protect their messages from being